

Technical Data**Models 123.133 (300 D-Turbo), 123.153 (300 CD-Turbo), 123.193 (300 TD-Turbo)****Engine**

Chassis type		123.133	123.153	123.193
Engine		617.952		
Operation		4-stroke diesel engine with MB prechamber		
Number of cylinders		5		
Cylinder arrangement		upright in line		
Bore/stroke	mm (inches)	90.9/92.4 (3.5/3.64)		
Total eff. piston displacement	cm ³ (cu inches)	2998 (183.0)		
Compression ratio		21.5 : 1		
Firing order		1-2-4-5-3		
Maximum engine	rpm (no load)	5200		
Engine output	SAE net bhp/rpm	120/4350 ¹⁾		
Maximum torque	SAE net lb. ft. rpm	184/2400 ²⁾		
Crankshaft bearings		6		
Valve arrangement		Overhead		
Camshaft arrangement		OHC		
Oil cooling		Air-oil cooler, thermostatically controlled		
Engine cooling		Water circulation pump, thermostat with bypass line, viscous clutch and light alloy fan, finned tube radiator.		
Lubrication		Forced oil circulation by gear pump		
Oil filter		Combination full flow and by-pass filter		
Air filter		Air filter with paper cartridge		

¹⁾ For model year 1985 Federal 123/4350
 California 118/4350

²⁾ For model year 1985 Federal 184/2400
 California 177/2400

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Dimensions

Length overall	mm (ins.)	4848 (190.9)	4763 (187.5)	4848 (190.9)
Width	mm (ins.)	1786 (70.3)		
Height, ready-to-drive	mm (ins.)	1438 (56.6)	1395 (54.9)	1470 (57.9)
Wheel base	mm (ins.)	2795 (110.0)	2710 (106.7)	2795 (110.0)
Track	front mm (ins.)	1488 (58.6)		
	rear mm (ins.)	1446 (56.9)		1453 (57.3)
Wheel lock	inside approx. deg.	43		
	outside approx. deg.	33		
Turning circle — min. dia. m (ft.)		11.29 (37.0)	11.0 (36.1)	11.29 (37.0)

Weights

Vehicle curb weight kg (lbs.)	1625 (3585)		1715 (3780)
Gross vehicle weight (GVWR) kg (lbs.)	2080 (4585)		2210 (4870)
Gross axle weight rating kg (lbs.) (GAWR) front/rear	1005/1075 (2215/2370)	995/1085 (2195/2390)	1000/1210 (2205/2665)

Electrical System

Battery	Voltage Capacity	12 V 90 Ah
Starter	Bosch	JF 12 V 2.3 kW
Alternator	Bosch	K1-14 V 55 A Max. output 770 W

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Filling Capacities

Fuel tank/reserve fuel		approx. ltr. (US gal.)	80.0/10.5 (21.1/2.3)	70.0/11 (11.5/2.9)
Initial filling	Engine oil	approx. ltr. approx. US qts.	8.5 9	
Oil and filter change	Engine oil	approx. ltr. approx. US qts.	7.5 7.9	
Oil pan up to markings on dipstick	Engine oil	approx. ltr. approx. US qts.	6.0/4.5 6.3/4.7	
Oil filter	Engine oil	approx. ltr. approx. US qts.	1.5 1.6	
Cooling system with heater		approx. ltr. approx. US qts.	12.5 13.2	
Water pump			maintenance free	
Brake system	Brake fluid	approx. ltr. approx. US qts.	0.5 1.1	
Automatic transmission initial filling fluid change	Auto. transmission fluid (ATF)	approx. ltr. approx. US qts.	7.3/6.2 7.7/6.5	
Rear axle	Hypoid oil SAE 90	approx. ltr. approx. US qts.	1 2.1	
Power steering	Auto. transmission fluid (ATF)	approx. ltr. approx. US qts.	1.4 3.0	
Level Control	Hydraulic Fluid	ltr. US qts.	3.5 3.7	

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Performance Data with Automatic Transmission

Rear axle ratio	3.07		
Maximum speed in individual gears	1st gear	km/h (mph)	45 (128)
	2nd gear	km/h (mph)	69 (43)
	3rd gear	km/h (mph)	116 (72)
	4th gear approx.	km/h (mph)	165 (102)
Gradability	1st gear slip limit	% (1 in)	41 (2.43)
	2nd gear	% (1 in)	41 (2.43)
	3rd gear	% (1 in)	24 (4.16)
	4th gear	% (1 in)	12 (8.33)
Acceleration through gears 0 to 100 km/h (0 to 62 mph) sec \pm 7 % ¹⁾ Load: 2 persons			14
Engine rpm at 100 km/h (62 mph) in high gear			2745

Fuel/Oil Consumption and Operating Condition

Fuel Economy – City ²⁾			27 mpg
Fuel Economy – Highway ²⁾			33 mpg
Fuel Economy – Combined ²⁾			29 mpg
Engine oil consumption (max.)		ltr./100 km miles/US qt.	0.25 235
Coolant temperature	max. temp.	approx. °C	126
		°F	259
	in working range of thermostat	°C	80 – 95
		°F	176 – 203
Fuel type			Diesel fuel according to ASTM D 975 No. 1-D and 2-D

¹⁾ The + 7 % factor includes possible deviations from permissible engine performance and tire tolerance limits.

²⁾ Compare this to other cars. Your mileage may differ depending on speed, weather conditions and trip length.